

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/12812

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A63B21/055

According to International Patent Classification (IPC) or to both national classification and IPC.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A63B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FR 2 625 907 A (ANDRE JACQUES) 21 July 1989 (1989-07-21) page 7, line 29 -page 8, line 25 page 12, line 12 - line 33 page 19, line 30 -page 21, line 23 page 28, line 3 - line 8; figures 1,18-23,27,43	1-3,6,7, 10-12, 16,19
Y	US 6 394 933 B1 (YU TE LIANG) 28 May 2002 (2002-05-28) column 1, line 53 -column 2, line 44 column 2, line 66 -column 3, line 20 column 3, line 34 -column 3, line 67; figures 2-6	1-3,6,7, 10-12, 16,19

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

17 September 2003

Date of mailing of the international search report

06/10/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 772 560 A (ARMSTRONG TIMOTHY O ET AL) 30 June 1998 (1998-06-30) column 2, line 26 -column 2, line 55 column 14, line 59 -column 15, line 35; figures 12,13	1,3,6,7, 10-12, 16,19
A	WO 02 083251 A (BALANCED BODY INC) 24 October 2002 (2002-10-24) the whole document	1

INTERNATIONAL SEARCH REPORT

Information on patent family members .

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2625907	A	21-07-1989	FR 2625907 A1	21-07-1989
US 6394933	B1	28-05-2002	NONE	
US 5772560	A	30-06-1998	NONE	
WO 02083251	A	24-10-2002	US 2001056011 A1	27-12-2001
			US 2002058573 A1	16-05-2002
			WO 02083251 A2	24-10-2002